author index

a

Abbasi S, 269, 327
Ahrens RC, 19
Alfero V, 103
Alonge C, 353
Althaus JS, 218
Aronoff SC, 282, 368
Auld PAM, 103

b

Bancalari E, 287
Bandy KP, 225
Bar-yishay E, 9
Basile A, 373
Beaudry PH, 128
Benirschke K, 247
Bennett SH, 194
Berger B, 72
Bernardi F, 353
Bertrand J-M, 378
Bhutani VK, 269, 327
Blatzheim L, 108
Blumer JL, 282
Boatman ES, 75
Bojalil BM, 337
Bose CL, 296
Brooks JG, 170
Bruce RD, 218

c

Cacciari E, 353
Canny GJ, 274, 313
Carlstrom JR, 296
Carman PGT, 89
Cataletto M, 114
Cerimoniale G, 353
Chan CE, 373
Chartrand C, 378
Chavalittamrong B, 202
Chearskul S, 202
Cheney FW, 75
Coates AL, 128, 274
Coates G, 35
Cobb MA, 154
Cohen MD, 211
Cory DA, 211
Criscione S, 353

d

Darga LL, 82
Darnall RA, 218
Davidson Ward SL, 373
Dayton V, 296
de Groot R, 110
den Hollander JC, 110
Denny FW, 27
Desmond KJ, 128
Diaz M, 332
Dolovich M, 35
Donn SM, 225

e

Eason LA, 82
Eigen H, 211
Ein SH, 60
Ervin MG, 40
Evans HE, 163
Evans JC, 358

f

Fairclough DL, 27
Farrell PM, 44
Fearon B, 60
Feller R, 287
Fernald GW, 27
Fernandez F, 337
Field D, 189
Filler RM, 60
Fisher DA, 40
Flavin M, 35
Fox WW, 269, 327
Frame MH, 237
Frankel LR, 307
Frayer WW, 103
Friedberg J, 60
Friedhoff LT, 282

g

Gates EP, 373
Gerhardt T, 287
Godfrey S, 9
Goetzman BW, 194
Goldstein RF, 103
Gomez-Del Rio M, 287
Graff MA, 332
Greenough A, 321
Grisdale RK, 274
Gross S, 9
Guerra IC, 175

h

Hageman JR, 154
Hall WJ, 170
Haluszka J, 312
Hart LD, 373
Heaf DP, 5
Hegyi T, 332
Hehre D, 287
Helms P, 5, 321
Helms RW, 27, 337
Hiatt IM, 332
Hibbert ME, 141
Holder PD, 147
Holsclaw D, 72
Hopkin IE, 189
Hunt CE, 154

i

Inselman LS, 163
Itzhaki T, 9

k

Kanga JF, 292
Keens TG, 373
Khan F, 163
Klemka L, 154
Kolb S, 72
Kolski G, 230
Kraman SS, 292
Krauss AN, 103
Kun S, 108

l

Labrozzi PH, 368
Lamarre A, 378
Landau LI, 141, 159, 206, 344
Langston C, 147, 175
Lapierre J-G, 378
Lau AM, 373
Leake RD, 40
Levison H, 94, 274, 313
Levy J, 384
Lewiston NJ, 307
Lindenberg JA, 194
Lipsey A, 108

m

Maayan C, 9
McBride JT, 170
McConnochie KM, 170, 260
McCrea R, 135
MacDonald M, 35
McGeady S, 72
MacLusky IB, 94
Macri F, 353
Marcotte JE, 274
Mark JD, 170
Martin GR, 303
Martin JG, 128
Mayock DE, 198
Meradji M, 110
Milner AD, 89, 189
Milstein JM, 194
Monaco F, 135
Morgan DB, 89
Moss IR, 114
Müller W, 65
Myers CM, 282

n

Naglie RA, 225
Namihira D, 337
Neijens HJ, 110
Newth CJL, 303
Nickerson BG, 135
Nicks JJ, 225
Nessly M, 75
Nothen U, 321
Novo RP, 332

o

Oberwaldner B, 358
O'Brodovich H, 35
Olinsky A, 159, 206
Oliver MR, 89

p

Pachman LM, 154
Patterson C, 135
Pavlin J, 75
Pekow P, 337
Perrin EVD, 2
Phelan PD, 159
Polgar G, 82
Popendorf W, 19

r

Reed MD, 282
Reiser J, 237, 250
Richardson P, 296
Riedel F, 15
Rieger CHL, 65
Ries RA, 19
Rogers J, 175
Roghmann KJ, 260
Ronchetti R, 353
Ross MG, 40
Ruddy RM, 230

s

Saunders B, 247
Scales RL, 211
Scarpa N, 230
Schidlow D, 72
Scott PH, 211

Sewell EM, 72
Shaffer TH, 327
Shandling B, 60
Sherman JM, 244
Silverman NH, 303
Sly PD, 141, 206, 344
Smallhorn J, 94
Smith C, 332
Smith DW, 307
Smith JA, 211
Sosulski R, 269
Spitzer A, 327
Standaert TA, 198
Stern RC, 282
Stevenson DK, 307
Stocks J, 5, 321
Stokes GM, 89
Stringer D, 94
Strope GL, 337

t

Tal A, 9
Tepper R, 211
Tinajero LA, 373
Toogood JH, 250
Tuchinda M, 202
Turner H, 5
Tyler DC, 75

v

van Steensel-Moll HA, 110
Villa MP, 353
Voland JR, 247
Volberg FM, 27
von der Hardt H, 15, 65
Vyas H, 189

w

Wagener JS, 159
Warburton D, 108
Warner JO, 237
Watchko JR, 198
Wiese JA, 19
Wilmott R, 230
Wilmott RW, 384
Wilson AJ, 89
Winnik GE, 114
Woodrum DE, 198

y

Yamashita TS, 282

z

Zach MS, 82, 358
Zapletal A, 313
Zarfen J, 94
Zureikat GY, 303

subject index

a

Aberrant systemic artery, 147
ABSTRACTS, 121, 181, 254, 316
Acquired immunodeficiency syndrome, 175
Adult respiratory distress syndrome, 75
Aerosols, 19, 35, 250
  Budesonide, 237
  metaproterenol, 230
AIDS, 175
Air pollution, 337
Airflow limitation, 128
Airway caliber, 206, 344
Airway instability, 82
Airway obstruction, 274, 378
Airway pressure, 225
Airway resistance, 9
Alkalosis, 194
Altitude, 337
Alveolar hypoventilation, 114
Amino acids, 163
Aminophylline, 218
Antibiotics, β-lactam, 282
Apnea, 373
ARDS, 75
Arterial blood gases, 269, 313
Arterialized capillary sampling, 269, 313
Artificial lung injury, 225
Asthma
  acute, emergency treatment of, 230
  airway hyperreactivity and, 170
  atelectasis in, 65
  bronchial responsiveness in, diurnal variation in, 206, 344
  inhaled corticosteroids in, 237
  nifedipine and, 206
  peak expiratory flow rate in, 141
  plasma amino acid levels in, 163
  spacers in, 237, 250
  trapped gas and airflow limitation in, 128
Atelectasis, 65
Aztreonam, 282

b

BCG vaccination, 202
Beta-agonist nebulization, 287
Beta-lactamase, 368
Blood flow, 296
Blood gases, 269, 313
BOOK REVIEWS
  Cole, *The Harriet Lane Handbook*, 179
  Goldhaber, *Pulmonary Embolism and Deep Venous Thrombosis*, 253
  Guntheroth, *Crib Death: The Sudden Infant Death Syndrome*, 180
  Hawkins and Sorgi, *Research. How to Plan, Speak and Write About It*, 252
  Martin, *Cardiorespiratory Disorders During Sleep*, 315
  Nelson, *Pulmonary Development: Transition From Intrauterine to Extrauterine Life*, 119
  Zimmerman and Gildea, *Critical Care Pediatrics*, 119
Breast feeding, 260
Breathing maneuvers, 292
Bronchial carcinoid tumor, 110
Bronchial injury, 60
Bronchial lavage, 244
Bronchial reactivity
  asthma and, 170, 206, 344
  cold air and, 82
  diurnal variation of, 206, 344
  histamine and, 15, 344, 378
  hyaline membrane disease and, 94
  nonspecific, 353
Bronchial stenosis, 60
Bronchiolitis, 9, 170
  epidemic of, 307
Bronchodilator response, 206, 237, 250
Bronchopulmonary dysplasia, 269, 287, 332

c

Calcium channel blockers, 206
Capillary sampling, arterialized, 269, 313
Carbachol challenge, 353
Carbon dioxide
  end-tidal, 89, 135
  sensitivity to, 103
Carcinoid tumor, bronchial, 110
Cardiac function, 94, 274
Cardiac malformations, 247
Catecholamines, 218
Catheters, central venous, indwelling, 303
Cats
  high-frequency jet ventilation in, 225
  induced respiratory distress in, cardiopulmonary function with, 296
Chest physiotherapy, 358
Chronic airway obstruction, 274
Chronic lung disease, 27
Cold provocation, 82, 344
Collapsing transmural pressure, 327
Computed tomography, magnetic resonance imaging vs., 211
Congenital anomalies, 247
Continuous positive airway pressure, 103
Corticosteroids, inhaled, 237
Croup, 159
Cystic adenomatoid malformation, 147
Cystic fibrosis
  airway hyperreactivity in, 82
  aztreonam pharmacokinetics in, 282
  bronchial lavage in, 244
  drug susceptibility in, 368
  exercise capacity in, 274
  new chest physiotherapy method in, 358
  total respiratory compliance and functional residual capacity in, 321
  trapped gas and airflow limitation in, 128

d

Dead space, added, 89
Diagnostic procedures
  bronchial carcinoid and, 110
  chronic lung disease and, 27
Diaphragmatic pressure, 198
Diurnal variations, 141, 206, 344
Drug susceptibility, 368
Dynamic compliance, 332

e

Embolism, pulmonary, 303
Endorphin level, 114
Endotracheal intubation, 5, 19, 103, 225
End-tidal carbon dioxide, 89, 135
Epinephrine, 230
Esophageal pressure, 5
Exercise limitation, 274

I

β-Lactam antibiotics, 282
Lambs, newborn, 194
Laryngotracheobronchitis, 159
Liposyn infusion, 154
Lung compliance, 5, 296, 321, 332
Lung fluid, 40
Lung injury, 75
  artificial, 225
Lung mechanics, 269
Lung sounds, 292
Lung volume, 103, 312
Lymphoid hyperplasia, follicular, 175

m

Magnetic resonance imaging, 211
Malnutrition, 274
Maternal hyperosmolality, 40
Maternal smoking, 260
Mechanical ventilation, 194, 225, 307
Metaproterenol, 230
Metered dose inhaler, 237
Methacholine challenge, 94
Minute ventilation, 89
Mixing efficiency, 128

n

Naloxone, 114
Neonatal respiration, 189
Nifedipine, 206
N-Nitroso N-Methylurethane, 296
Normocarbia, 194
Nutrition, 44, 274

o

Opotherapy, substitutive, 353
Ovine fetus, 40
Oxygen-dependent infants, 269
Oxygen therapy, 75
  home, 72
Oxygen transport, 296

p

Parainfluenza virus, 307
Passive smoking, 260
Peak expiratory flow rate, 141, 206
Pediatric pulmonology, 126, 185, 257
PERSPECTIVES, 4, 127, 187, 259
Phonopneumography, 292
Phrenic nerve stimulation, 198
Piglets, diaphragmatic pressures in, 198
Plethysmography, 9
Pneumography, 373
Pneumonitis, interstitial, 175
Positive end-expiratory pressure, 296
Positive expiratory pressure mask, 358
Pressure-volume curves, 189
Preterm infants, 94, 103, 287, 292, 332, 373
Prostaglandin concentrations, 154
Pseudomonas aeruginosa, 282
Pseudomonas cepacia, 282, 368
Pulmonary agenesis, 247
Pulmonary embolism, 303
Pulmonary fibrosis, 312
Pulmonary follicular lymphoid hyperplasia, 175
Pulmonary hemosiderosis, 384
Pulmonary function, 5, 44, 269, 274, 378
Pulmonary function tests, 312, 337, 358
Pulmonary hypertension, 194
Pulmonary resistance, 287, 296
Pulmonary vasodilation, 194

r

Rabbits
  newborn, preterm vs. term, 327
  oxygen therapy in, 75
  plasma prostaglandin concentrations in, liposyn infusion and, 154
Radiography, magnetic resonance imaging vs., 211
Radioisotopes, 35
Resistance
  pulmonary, 287, 296
  variable, 358
Respiration, onset of, 189
Respiratory compliance, 5, 296, 321, 332
Respiratory control, 218
Respiratory distress, induced, 296

Respiratory distress syndrome, 332
  adult, 75
Respiratory failure, in bronchiolitis, 307
Respiratory stimulus, 114
Respiratory syncytial virus, 307
Right atrial thrombus, 303

s

Sequestration spectrum, 147
Skin surface carbon dioxide electroe, 135
Smoking, maternal, 260
Spacers, in asthma treatment, 237, 250
Spirometry, 337
  weighted, 321
Sputum clearance, 358
SQ 26,992 excretion, 282
Status asthmaticus, amino acids and, 163
Sterile water, 108
Sternal retractions, 159
Stridor, 159
Sudden infant death syndrome, victims of, siblings of, 373
Systemic artery, aberrant, 147

t

Terbutaline, 269
Thromboxane concentrations, 154
Thrombus, right atrial, 303
Thyroid hormone therapy, 353
Tracheal compression, 378
Tracheal dimensions, 327
Tracheal stenosis, 247
Tracheobronchitis, 159
Tracheostomy, 108
Transdiaphragmatic pressure, 198
Transmural pressure, collapsing, 327
Transtracheal pressure, 332
Trapped gas, 128
Trauma, 60
Tuberculosis, BCG vaccination and, 202

u

Urokinase therapy, 303

v

Vaccination, BCG, 202
Variable resistance, 358
Vascular ring, 378
Vasopressin, 40
Ventilation, mechanical, 194, 225, 307
Ventilator-dependent infants, 35, 269
Ventilatory depression, 218
Ventilatory response, 89, 103
Viral tracheobronchitis, 159
Vital capacity, 337

w

Water, sterile, 108
Weighted spirometry, 321
Wheezing, 260